

**PRODUCT:** All Products**SUBJECT:** Mounting Brackets

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**Note:** This notice has been updated with additional information. Please read it in its entirety and keep for future reference.

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## OVERVIEW

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Vari-Lite would like to remind all owners, Authorized Dealers, and Service Centers to inspect, as part of their normal maintenance routine, all mounting brackets for bracket integrity and proper latching operation as described herein.

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**WARNING:** Defective or damaged mounting brackets must NOT be used for hanging luminaires. If a bracket is found to be damaged, it must be removed from service and destroyed. Using a defective or damaged mounting bracket can lead to bracket failure and cause serious injury.

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If you have any questions as to any aspect of this Technical Notice, please contact Vari-Lite customer service at 1-877-VARILITE or +1-214-647-7880.

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**WARNING:** Any repairs or maintenance to VARI\*LITE luminaires should only be performed by a trained and qualified service technician or at an Authorized VARI\*LITE Service facility.

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## MOUNTING BRACKET INSPECTION

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Two mounting brackets (refer to the product's manual for the Vari-Lite part number for your specific luminaire) are supplied with some VARI\*LITE luminaires, should be periodically inspected for wear and fitness for use.

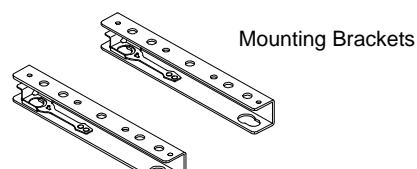
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**Note:** Vari-lite recommends the following criteria be used in a routine inspection. Users should also consult local and national safety codes and recommended industry practices for inspection.

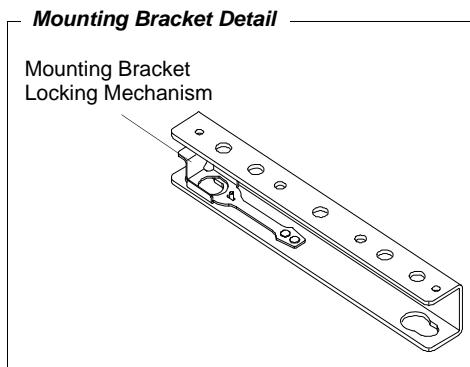
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***Mounting bracket should be straight and show no bends or damage.***

- Any mounting bracket that has been bent, should be discarded and replaced with a new unit (sold individually).



Mounting Brackets



Mounting Bracket Detail

Mounting Bracket Locking Mechanism

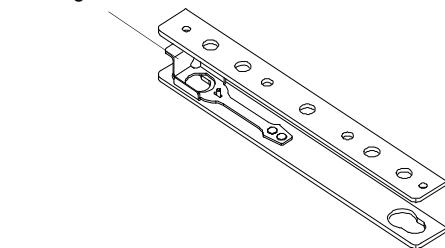


Figure 1: Mounting Bracket Detail

***Mounting bracket locking springs should be in proper working order.***

- Often, Vari-Lite has found that the locking mechanism on the mounting brackets has been bent with a tool.
- Locking mechanisms are to be operated by hand only (without the use of any tools).

***Mounting brackets should not be altered or modified.***

- Mounting brackets should not be altered in any way. Drilling, welding, cutting, etc. can lessen the ability of the mounting bracket to work as designed.
- Any mounting bracket that has been altered should be discarded and replaced with a new unit.

***Mounting brackets should be inspected more frequently if used during transport.***

- If mounting brackets are used on transport truss or carriage transport system where the luminaire is hung for transporting, they must be inspected more frequently for fatigue or damage.
- The constant loading and unloading of the bolted joint (between the truss hook or claw and the mounting bracket) in a transport truss can, over time, weaken or damage the rail.

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**MOUNTING BRACKET INSTALLATION**

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As described in the luminaire owner's manual, mounting brackets must be installed in the same direction and be properly locked over mounting posts.

***Hanging the Luminaire***

Two mounting bracket assemblies (as provided with all VARI\*LITE luminaires except Series 500 and Series 1000 luminaires) are used to attach truss hooks or other mounting hardware as required.

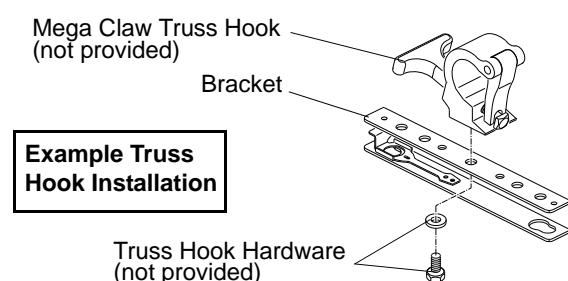
A minimum of one hook per truss hook bracket is required. If mounting method does not use truss hooks, two attachment points per truss hook bracket are required. When attaching more than one point on a single bracket, the attach points must be spaced as far apart as possible using the supplied mounting holes.

***Install mounting hardware and brackets:***

- Step 1. Install truss hooks (also refer to "[Truss Hook Hardware \(by others\)](#)" on page 3 of this notice for additional information) on two provided truss hook brackets as required.

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**Note:** Various types of truss hooks can be used. The Mega Claw truss hook (as shown in this example) as well as many other standard hooks, can be ordered separately from Vari-Lite or your Authorized VARI\*LITE Dealer.



**Figure 2: Installing Truss Hooks**

**Truss Hook Hardware (by others)**

When installing hanging hooks on mounting brackets, Vari-Lite strongly recommends the use of a Belleville washer (*by others, Figure 3 shows examples*) when installing a truss hook or claw as shown in **Figure 2** on page 3 of this notice.



The Belleville washer's size should be approximately 0.505-inch (inner diameter) by 1.00-inch (outer diameter). Belleville washers are available in various thicknesses and any of the following thicknesses (0.035-inch, 0.043-inch, 0.050-inch, 0.073-inch) are acceptable for the application described herein.

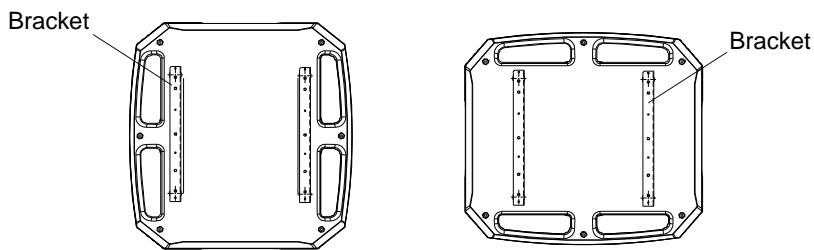
*The washer serves two purposes:*

- To spread out the load. When a washer IS NOT used, the bolt head (*without a washer*) concentrates the load in a smaller area, creating focused stress on the steel bracket, making premature failure possible. A steel washer is recommended to spread this load over a larger surface area.
- To keep the bolt in place. The recommended Belleville washer maintains tension in the bolted assembly and prevents it from vibrating loose.

If a Belleville washer is not available, a regular flat washer measuring in diameter of 1inch (minimum) can be used in conjunction with a suitable split lock washer situated between the bolt head and flat washer.

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Step 2. Determine required configuration of bracket installation. In the example below, brackets may be installed in either orientation as shown in **Figure 4, but both must face the same direction. Figure 5** shows bracket installation details.



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**Note:** Example configuration shown for reference purposes only. Refer to the user's manual for your specific model's configuration options.

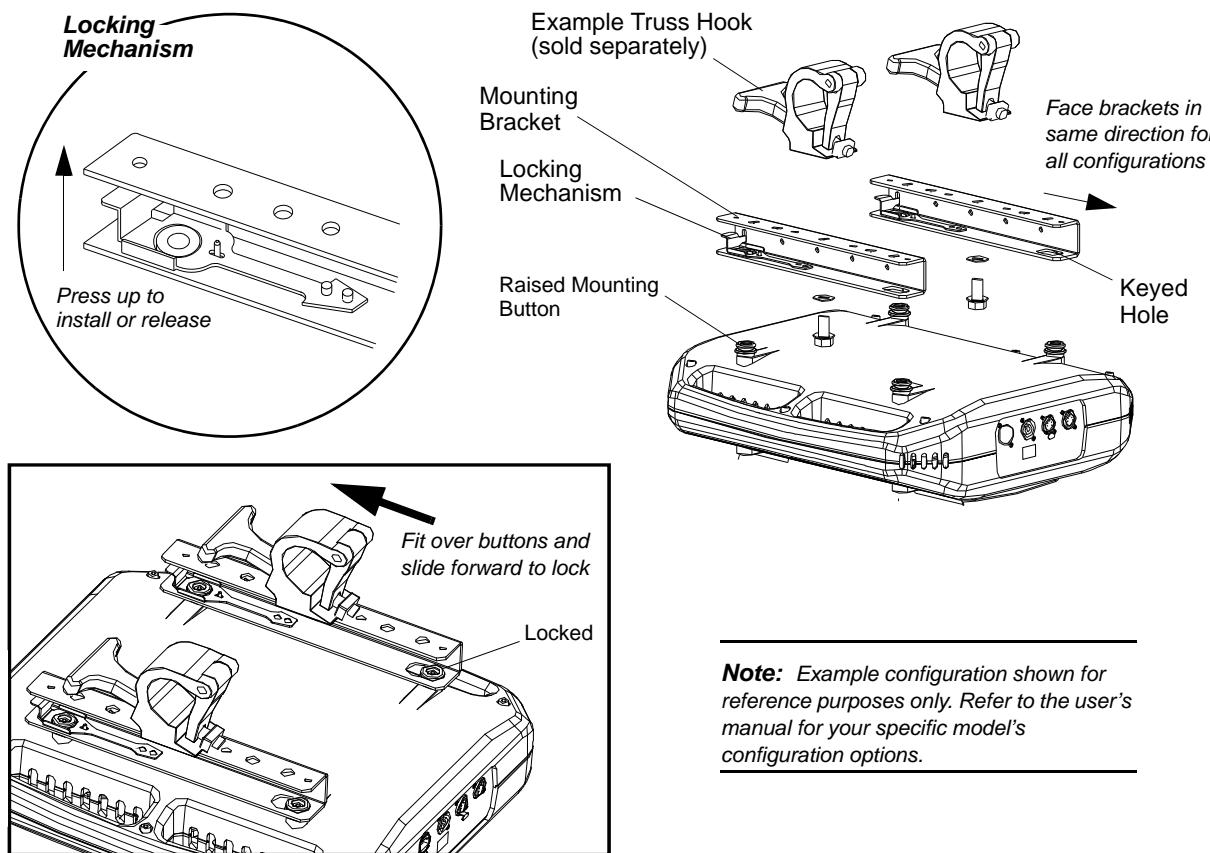
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**Figure 4: Bracket Orientation Example Options**

Step 3. While pulling up on locking mechanism release, fit keyed holes onto raised mounting buttons at bottom of enclosure. Slide forward and release locking mechanism to lock in place. Ensure brackets are locked securely. (Always face brackets in same direction as shown in the example in **Figure 5**.)



Step 4. Ensure that the bracket locking mechanism is fully seated after the bracket is installed on the luminaire.



**Note:** Example configuration shown for reference purposes only. Refer to the user's manual for your specific model's configuration options.

**Figure 5: Installing Brackets on Luminaire Enclosure**

Step 5. Refer to luminaire user's manual for complete installation information.

#### CONTACT INFORMATION

For more information on this technical notice or on VARI\*LITE products, please contact your Authorized VARI\*LITE Dealer or Vari-Lite customer service.